	Application No.	Applicant(s)	
	10/648,287	KOHIRA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Jefferson Evans	2652	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. $igspace$ This communication is responsive to <u>the preliminary amend</u>	dment filed 8-27-2003.		
2. ⊠ The allowed claim(s) is/are <u>6-20</u> .			
3. \boxtimes The drawings filed on <u>27 August 2003</u> are accepted by the	Examiner.		
4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Certified copies not received: * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the delow. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submited in INFORMAL PATENT APPLICATION (PTO-152) which give in INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftsperson (b) including changes required by the Notice of Draftsperson (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.: each sheet. Replacement sheet(s) should be labeled as such in the paper of the priority documents and the depose attached Examiner's comment regarding REQUIREMENT For the priority documents and the priority documents and the priority documents are considered.	been received. been received in Application No. <u>OS</u> cuments have been received in this application. Itted. Note the attached EXAMINER' is reason(s) why the oath or declarate the submitted. It be submitted. It is application. It is application.	national stage applical complying with the red S AMENDMENT or Nation is deficient. 948) attached office action of the sign in the front (not the sign in the submitted. National contents and the submitted.	quirements
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 8-27-2003 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. ☐ Notice of Informal Pa 6. ☑ Interview Summary en Paper No./Mail Date 7. ☑ Examiner's Amendments Statements Stateme	(PTO-413), e <u>9-1-2004</u> . nent/Comment	

Application/Control Number: 10/648,287

Art Unit: 2652

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The abstract has been replaced by the abstract on the attached sheet.

The title has been deleted and replaced with the following:

-- Magnetic Head Slider Having Optimized Ratio Of Negative Pressure Bearing
To A Front Or Center Step Bearing --.

Authorization for this examiner's amendment was given in a telephone interview with Daniel Stanger (32,846) on 8-31-2004.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferson Evans whose telephone number is 703-308-1610. The examiner can normally be reached on Monday to Friday, 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 703-305-9687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JEFFERSON EVANS
PRIMARY EXAMINER

A.U. 2652 PE 001-2004 Application/Control Number: 10/648,287

Art Unit: 2652

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: the prior art of record neither teaches nor suggest a slider including the claimed air bearing surface structure of a rail surface, front step bearing, negative pressure recess, center step bearing having a center pad, wherein the ratio of depth R of the recess and depth δs of one of either the front step bearing or the center step bearing is R/ $\delta s \geq 5$.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Abstract of the Disclosure

A magnetic head slider, for sliding on a magnetic disk, which comprises a leading edge, a trailing edge, an air bearing surface having a front step bearing of submicron depth made from the leading edge, and a rail surface made from the front step bearing. A negative pressure recess, which is more profound than the front step bearing, is made from the rail surface, and a side step bearing with a depth identical to that of the front step bearing is made from the rail surface, wherein the ratio of depth R of the recess and depth δs of the front step bearing is R/ $\delta s \geq 5$.